DNA-based monitoring: BULK SAMPLES versus ENVIRONMENTAL DNA



FACT SHEET #2

WHAT is the difference between bulk samples and eDNA?

	Bulk DNA	environmental DNA - eDNA
Definition	Bulk DNA is DNA extracted from the tissue of specimens that have been separated from the sediment/water/substrate by sieving, decantation and manual sorting.	Environmental DNA (eDNA) is organismal DNA (bacteria, viruses, plankton) or extra-organismal DNA (skin cells, eggs and sperms, faeces,) that can be found in the environment.
	Focus on the (large) animal	Focus on free DNA, cells and small floating organisms
Effort to collect a sample	High (trawls, grabs, corers,)	Low (water, sediment,)
DNA concentration	High	Low
Geographical precision	GPS location	Range (water) to location (sediment)

HOW do you know what is the BEST APPROACH in a certain case?

